Title (en)

Planetary gearbox with integral service brake

Title (de)

Planetengetriebe mit integrierter Betriebsbremse

Title (fr)

Engrenage planétaire solidaire d'un frein de service intégral

Publication

EP 2910395 B1 20190213 (EN)

Application

EP 14195417 A 20141128

Priority

US 201414184472 A 20140219

Abstract (en)

[origin: EP2910395A2] A planetary gearbox with substantial speed reduction includes a stationary spindle, an integral service brake, and a parking brake. The integral service brake resides radially outwardly with respect to the parking brake in a stacked arrangement such that axial space is conserved yielding an axially short and compact gearbox. An oil passageway extends radially through the spindle. A rotating input shaft drives the planetary gearbox and produces an output in the form of a rotatable housing. The service brake rotors have a large surface area and are keyed to the rotatable hub enabling efficient brake cooling and efficacious brake performance in a compact arrangement.

IPC 8 full level

B60K 17/14 (2006.01); **B60K 17/04** (2006.01)

CPC (source: EP US)

B60K 17/046 (2013.01 - EP US); **B60T 1/062** (2013.01 - EP US); **F16D 55/40** (2013.01 - EP US); **F16H 57/10** (2013.01 - US); B60K 7/0015 (2013.01 - EP US)

Cited by

CN105090450A; EP4212375A1; WO2016139600A1; WO2023031194A1

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DOCDB simple family (publication)

EP 2910395 A2 20150826; **EP 2910395 A3 20151104**; **EP 2910395 B1 20190213**; DK 2910395 T3 20190506; TR 201905666 T4 20190521; US 2015233467 A1 20150820; US 9429227 B2 20160830

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EP 14195417 A 20141128; DK 14195417 T 20141128; TR 201905666 T 20141128; US 201414184472 A 20140219